AMSAT News Service Weekly Bulletins
Issue: ANS-197
Date: 2023-07-16
Sources: amsat-ans-2023-ans-197-weekly-hyperkitty-f41499aa4a.txt

---

AMSAT NEWS SERVICE
ANS-197

In this edition:

* AMSAT Board of Directors Voting Has Begun
* Youth on the Air Camp 2023 To Be On Satellites
* HABGab and StratoScience Balloon Launch
* Space Shuttle Remembered
* Historical Space Tour Before Orlando Hamcation
* Changes to AMSAT-NA TLE Distribution
* ARISS-USA Seeks for Director of Education
* ARISS News
* Upcoming Satellite Operations
* Hamfests, Conventions, Maker Faires, and Other Events
* Satellite Shorts From All Over

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, the Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat.org

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

ANS-197 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2023 July 16

AMSAT Board of Directors Voting Has Begun

AMSAT members may access the 2023 Board of Directors election information and balloting now. Candidate statements can be reviewed by voting members via AMSAT’s Wild Apricot membership portal. An email with a link to the electronic ballot was sent to all AMSAT members when the voting opened on July 15th.

The nomination period for the 2023 Board of Directors Election ended on June 15, 2023. The following candidates have been duly nominated:

    Barry Baines, WD4ASW
    Jerry Buxton, N0JY
    Drew Glasbrenner, KO4MA

Zach Metzinger, N0ZGO
Frank Karnauskas, N1UW

As four seats on the Board of Directors are up for election this year, four of these candidates will be seated on the Board, along with one alternate when the voting period concludes on September 15th.

To view the candidate statements members may go to https://launch.amsat.org/ and log in using their usual member credentials. Those who need assistance with the login should see the document at https://bit.ly/44LOXPV

[ANS thanks Jeff Davis, KE9V, AMSAT Secretary, for the above information]

+=+=+=

For additional information, please contact Camp Director Neil Rapp, WB9VPG at director(a)youthontheair.org.

[ANS thanks Frank Karnauskas, N1UW, and YOTA for the above information]

+=+=+=

feet.

Also onboard will be a U4B Pico tracker being tested by KC1OAV in preparation for a circumnavigation flight to happen at a later date. This can be tracked separately at http://qrp-labs.com/tracking.html under the name NESciTech1.

HABGab 2023 has been made possible thanks to a grant from the Amateur Radio Relay League (ARRL).

[ANS thanks Joe Fitzgerald, KM1P, and New England Sci-Tech for the above information]

Space Shuttle Remembered

Saturday, July 8 marked the 12th anniversary of the last Space Shuttle mission. Ham astronauts operated amateur radio in space on a number of shuttle missions, providing many with their first opportunity to contact an astronaut in space -- an opportunity still actively pursued today through Amateur Radio on the International Space Station (ARISS).

Over three decades, the five NASA space shuttles were launched on 135 flights to orbit. The shuttles collectively traveled more than 537 million miles and spent more than three and half years in orbit.

* 355 people flew aboard the shuttles, including Sally Ride, the first American woman to fly to space. Her first mission was aboard the Challenger in 1983.

* Missions averaged about 10 days, with the shortest at 2 days, 6 hours and the longest 17 days, 15 hours.

* Mission objective included building the International Space Station, carrying large satellites to space and maintaining equipment like the Hubble Space Telescope. Ten missions remain classified, with little to no information publicly available.

Ultimately, the fatalities on Challenger in 1986 and Columbia in 2003 helped bring about the end of the Shuttle program. The investigation in the loss of Columbia concluded that safety improvements would be costly. The program was shut down after construction on the ISS was complete.

[ANS thanks Axios Space for the above information]

Historical Space Tour Before Orlando Hamcation

Sadly, the Kennedy Space Center Visitor Center, a few years ago, stopped offering historical tours of Cape Canaveral and the sites of the Mercury launches and early uncrewed missions.

However, Bruce Perens, K6BP, has arranged for a Canaveral tour on Thursday, Feb. 8, 2024 (the day before the Orlando Hamcation) at 10 a.m. to 2 p.m. Only 9 people can be accomodated, U.S. Citizens only, and there will be a _required_ ID process before the tour. Cost will be about $60 each, and lunch or snacks will be offered between the sites.

We will go to:
* LC-26, LC-5, and LC-6: the (adjacent) launch sites for much early space exploration including the first crewed flights of Alan Shepard and Gus Grissom. Besides walking around the pads and seeing a number of historical

space exhibits there, you will be able to access the firing room and the Space Force Missile Museum.

* Hangar C, where there are many restored historical space vehicles and missiles, and the Canaveral lighthouse.

We will NOT have access to the Mercury Memorial, LC-14 (restored uncrewed flights firing room), and LC-34 (mostly-torn-down site of the Apollo 1 fire), which were (at times) on the old Rise to Space tour.

Activity on the base can force us to cancel or can change or curtail the itinerary.

Reserve your spot now via email to bruce(a)perens.com

[ANS thanks Bruce Perens, K6BP, for the above information]

+=+=+=

ARISS web sites: www.ariss.org and www.ariss-usa.org.

Responsibilities

+ ARISS Education Senior Leadership: As the Director of Education, work with the ARISS team to develop strategies and a vision to maintain and expand the educational outcomes of youth that participate in the ARISS experience.

+ Education Engagement Volunteer Team (EEVT) Leadership: Serve as the leader of the ARISS education engagement volunteer team, fostering passion within the team, recruiting new team members, and ensuring each radio contact opportunity meets ARISS' objectives of inspiring, engaging, and educating youth in STEAM/STEM and encouraging youth to pursue careers in these fields.

+ Host Organization Contact Competitive Selection: Coordinate the semi-annual request for proposal (RFP) process to solicit and select host organizations (e.g., schools and informal education organizations) for ARISS astronaut radio contacts. Staff the proposal selection team, maintain RFP selection rubric and RFP process, conduct host organization information sessions, serve as the selection official, and coordinate with the ARISS executive team on endorsement of final selections and on ensuring host organizations and external media are promptly and accurately informed of the results.

+ ARISS Education Ambassadors (AEA): Recruit, train and guide AEAs, selected from the EEVT ranks. AEAs track their appointed ARISS contact host organizations to gather details and insight into how these contact teams are following their educational objectives as outlined in their proposals. AEAs also gather data to document ARISS contact educational outcomes, including photos, parent permission slips, student engagement descriptions, metrics and post-survey compliance.

+ Diversity and Inclusion: Develop team strategies that explicitly target improvements in ARISS' engagement with diverse and underrepresented youth and provide opportunities for these youth that motivate them to pursue STEAM careers.

+ ARISS Lesson Plans: Create or coordinate the development of lesson plans and educational kits that support the educational outcomes of ARISS host organizations. Compile external lessons that can serve ARISS host organizations, including lessons developed by our NASA and ISS National Lab sponsors. Maintain dedicated areas on the ARISS web site for posting these lessons for distribution.

+ National Science Standards Alignment: Ensure ARISS education initiatives—including the contact experience, lesson plans, and educational kits—align with National Science Standards.

+ Metric Collection: Work with the education volunteer team to ensure contact metrics and post-contact surveys are submitted. Conduct post-contact surveys and track survey performance over the course of the program. Present metrics and survey results to ARISS executive team and prepare materials and present results of educational outcomes to sponsors, stakeholders and prospective new partners.

+ Networking: Participate in meetings, conferences, workshops and other opportunities to convey the educational breadth and depth of the ARISS Experience to space agencies, educators, sponsors, stakeholders, education departments, and federal and state governments.

+ International Coordination: Work with ARISS educators in other countries to develop best practices and to convey the activities and methods employed

by the ARISS-USA educator team.

Required Knowledge, Skills and Abilities

+ Demonstrated leadership in a formal or informal education setting.

+ 3+ years of teaching experience in a formal or informal education environment

+ Graduation from an accredited college or university with a degree in education, education administration or a related field.

+ Proficient in the use of virtual technology, including Zoom, and ability to learn other virtual tools, such as Google Meet, Teams, Webex, Dropbox, Google docs and Office 365 products.

+ Enthusiasm in providing education experiences in the STEAM field.

+ Enthusiasm learning about amateur radio and wireless technologies and to enthusiastically convey these to educators and youth.

+ Must be a U.S. citizen.

Preferred Knowledge, Skills and Abilities

+ Basic understanding of amateur radio; possessing an amateur radio license preferred; obtaining an amateur radio license required post-hire. License training will be provided upon hiring.

+ Educator that has previously conducted an ARISS contact.

+ Experience and/or ability to work and lead a virtual, distributed, nationwide team.

+ Experience in coordinating experiences, lessons learned and best practices with ARISS international colleagues.

+ Experience in coordinating with partners, stakeholders and sponsors.

+ Experience interfacing with space agencies or space organizations.

Location

Remote, within the USA.

Anticipated Salary

Part time, 20-hour per week salary range is $23,000-$34,500 per year, depending upon experience.

Hours worked per week and during the day are flexible, as long as the candidate supports meeting engagements, meets deliverable times, and works an average of about 20 hours per week.

Other Position Information

Candidates accepted into this position will be required to first serve a one-year probationary period. All candidates must be U.S. citizens.

To Apply

If you are interested in making a difference as an ARISS-USA team member, please send your resume or CV to candidates(a)ariss-usa.org. Include a cover letter explaining your interest in the position and why you are the optimal

candidate for this position.

All position applications are due no later than midnight (Eastern Daylight Time) July 31, 2023

[ANS thanks ARISS for the above information]

ARISS NEWS

Amateurs and others around the world may listen in on contacts between amateurs operating in schools and allowing students to interact with astronauts and cosmonauts aboard the International Space Station. The downlink frequency on which to listen is 145.800 MHz worldwide.

UPCOMING:
YOTA 2023, Carleton University, Ottawa, ON, Canada, telebridge via IK1SLD. The ISS callsign is presently scheduled to be OR4ISS and the scheduled crewmember is Steve Bowen, KI5BKB. The ARISS mentor is VE3TBD. Contact is go for: Tue 2023-07-18 18:42:54 UTC, 76 degrees maximum elevation.
Watch for Livestream at:
YOTA will be using https://youtube.com/live/A5bXZUGifYY?feature=share
IK1SLD will start about 15 minutes before AOS at http://www.ariotti.com/

Camp William B. Snyder, Haymarket, VA, telebridge via IK1SLD. The ISS callsign is presently scheduled to be OR4ISS and the scheduled crewmember is Sultan Al Neyadi, KI5VTV. The ARISS mentor is AJ9N. Contact is go for: Fri 2023-07-21 17:54:29 UTC, 54 degrees maximum elevation.
Watch for Livestream at:
The Camp will using: https://www.facebook.com/NCACSTEM/
IK1SLD will start about 15 minutes before AOS at http://www.ariotti.com/

The crossband repeater continues to be active (145.990 MHz up {PL 67} & 437.800 MHz down). If any crewmember is so inclined, all they have to do is pick up the microphone, raise the volume up, and talk on the crossband repeater. So give a listen, you just never know.

The packet system is also active (145.825 MHz up & down).

As always, if there is an EVA, a docking, or an undocking; the ARISS radios are turned off as part of the safety protocol.

Note, all times are approximate. It is recommended that you do your own orbital prediction or start listening about 10 minutes before the listed time.

The latest information on the operation mode can be found at
https://www.ariss.org/current-status-of-iss-stations.html

The latest list of frequencies in use can be found at
https://www.ariss.org/contact-the-iss.html

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors for the above information]

Upcoming Satellite Operations

Bruce, VE7PTN, is planning to operate from the CO50/CO60 gridline during July 20 to 22. FM / linear LEO, and Greencube MEO. Posible POTA activation on July 22 from VE-0711. New area for me so not sure what I will find when I get there. Will post more information closer to the date.

BI1NJI will be QRV as BI1NJI/3 from ON83, 24 through 27 July, FM and IO-117. Twitter @YankaiP and has said that details will follow.

[ANS thanks Ian Parsons, K5ZM, AMSAT rover page manager, for the above information]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

+ Small Satellite Conference
August 5-10, 2023
Utah State University, Logan, UT
More information at: https://smallsat.org/

+ 41st AMSAT Space Symposium & Annual General Meeting
October 20-21, 2023
Sheraton DFW Airport Hotel
4440 W John Carpenter Fwy, Irving, TX 75063

AMSAT Ambassador Clint Bradford, K6LCS, says,
“Think a 75-minute presentation on “working the easy satellites” would be appropriate for your club or event? Let me know by emailing me at k6lcsclint (at) gmail (dot) com or calling me at 909-999-SATS (7287)!”

Clint has NEVER given the exact same show twice: EACH of the 150+ presentations so far has been customized/tailored to their audiences.

[ANS thanks the AMSAT Events page for the above information]

Satellite Shorts From All Over

+ Condolences to the family and friends of well-known satellite enthusiast, rover, and POTA operator Sara R. "Bean" Lefebvre, KC1MEB, who became a Silent Key on July 7 at age 40 after a battle with Auto-Brewery Syndrome. (ANS thanks Ant Lefebvre, NU1U, for the above information)

+ Volunteer amateur satellite enthusiasts in the Dallas-Fort Worth area are needed to help talk Amateur Radio in space to a mostly non-ham audience of all ages at the 2023 edition of an event called "Moon Day" at the Frontiers of Flight Museum, Love Field, Dallas, TX on Saturday, July 22. The event is 10 a.m. to 4 p.m. with Setup at 8 a.m. Mostly indoor, but we will have a number of satellite passes to work, cubesat simulators to show off, The FOX Engineering model, and other cool things to show off. If you can help/participate, contact Tom Schuessler, N5HYP, via email, n5hyp(a)arrl.net immediately. For more information see https://www.flightmuseum.com/moon-day/ (ANS thanks Tom Schuessler, N5HYP, for the above information)

+ AMSAT-DL was founded in 1973, so with a view to the 50-year history of AMSAT-Germany and its mission of promoting amateur radio via satellites, a celebratory conference “From OSCAR 10 to OSCAR 100: 50 years of AMSAT-DL in service to science, research and education” is planned for September 15-17, 2023, at the Bochum Observatory, Nordrhein-Westfalen, Germany. For more information, see https://bit.ly/44rhPNE (ANS thanks AMSAT-DL for the above information)

+ NASA has marked the first anniversary of the James Webb Space Telescope’s

scientific debut this week with the release of a new image, demonstrating the telescope's ability to re-envision the universe. The dramatic, somewhat hallucinatory image captures the dynamism of the Rho Ophiuchi cloud complex, the closest star-forming region to Earth, where planetary systems like our own could be in the initial stages of forming: http://bit.ly/3PX0ZSb "The telescope is working better than we could have possibly hoped for," said NASA astrophysicist Jane Rigby, who earlier this month became the senior project scientist for the JWST. (ANS thanks The Washington Post for the above information)

+ The Mars Sample Return mission – a joint project between NASA and the European Space Agency – is currently under a major review. The cost of the mission may have increased from $4 billion or $5 billion to $8 billion or $9 billion, according to one estimate. NASA confirmed that one estimate in the review of the program was in that cost range, but added, "all scenarios are highly speculative." If the sample return mission does come with a higher price tag, it could impact NASA's entire planetary science portfolio, as other missions are also experiencing technical delays and schedule problems. (ANS thanks Axios Space for the above information)

+ Chinese private rocket firm Landspace achieved a global first late Tuesday, July 11 by reaching orbit with a methane-fueled rocket. Zhuque-2 beats a range of other methalox rockets, including SpaceX's Starship, the ULA Vulcan, Blue Origin's New Glenn, Rocket Lab's Neutron and Terran R from Relativity Space, in reaching orbit. These other launch vehicles will be much larger and feature much greater payload capacity. A methane-liquid oxygen propellant mix offers advantages in performance and reduces issues of soot formation and coking for purposes of reusability. (ANS thanks SpaceNews for the above information)

+ India's second attempt to land on the Moon, Chandrayaan-3, launched on July 14. The mission is a replacement for Chandrayaan-2, which crashed while descending to the lunar surface in September 2019. Chandrayaan-3 is scheduled for an August 23 or August 24 arrival. The lander and rover are scheduled to operate for one lunar day, which is about 14 Earth days. (ANS thanks The Parabolic Arc for the above information)

Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Mark Johns, KØJM
k0jm [at] amsat.org